APPLICANT(S): Yaakov NAVON

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## AMENDMENTS TO THE CLAIMS/CLAIM LISTING

Kindly amend the claims as follows:

1. (original) A method for image separation of an image, the image comprising pixels, the method comprising the steps of:

identifying kernels reflected by at least one of the operators selected from the group consisting of: P(x-w,y) - P(x,y) > t AND P(x+w, y) - P(x,y) > t; and P(x, y-w) - P(x,y) > tP(x,y) > t AND P(x, y+w) - P(x,y) > t; and P(x+d, y+d) - P(x,y) > t AND P(x-d, y-d) - tP(x,y) > t; and P(x-d, y+d) - P(x,y) > t AND P(x+d, y-d) - P(x,y) > t;

associating said kernels with a first layer; and

classifying as a second layer, said pixels which are not associated with said first layer.

- 2. (original) The method of claim 1 wherein said first layer is a text or graphics.
- 3. (original) The method of claim 1, wherein said second layer is a background.
- 4. (original) The method of claim 1 wherein said first layer is darker than said second layer.
- 5. (original) The method of claim 1 wherein said first layer is lighter than said second layer.
- 6. (original) The method of claim 1, wherein identifying kernels comprises performing a binarization technique.
- 7. (original) The method of claim 1, wherein identifying kernels comprises performing text binarization.
- 8. (original) The method of claim I, wherein identifying kernels comprises examining grey characteristics of pixels in an expansion of said kernels, wherein said expansion is less than or equal to 3 times w, wherein w is a typical stroke width of said image.
- 9. (original) The method of claim 1, and further comprising the step of storing said first layer.

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- 10. (original) The method of claim 1 and further comprising the step of compressing said first layer with a high resolution compression technique.
- 11. (original) The method of claim 1 and further comprising the step of compressing said second layer with a high lossy compression method.

Claims 12 - 16. (previously cancelled)

- 17. (currently amended) A method comprising the steps of:
- (i) identifying first and second image content, wherein said first and second image content comprise image foreground and image background, respectively;

and

- (ii) separately compressing said first and second image content.
- 18. (cancelled).
- 19. (original) The method of claim 18 comprising employing a higher resolution compression technique to compress said foreground content, as compared with said background content.
  - 20. (Currently amended) A system for separating an image comprising: a scanner for creating a digital image;

means for identifying kernels reflected by at least one of the operators selected from the group consisting of: P(x-y,y) - P(x,y) > t AND P(x+y,y) - P(x,y) > t; and P(x,y-y,y) = tw) - P(x,y) > t AND P(x, y+w) - P(x,y) > t; and P(x+d, y+d) - P(x,y) > t AND P(x-d, y-d) - P(x,y) > tP(x,y) > t; and P(x-d, y+d) - P(x,y) > t AND P(x+d, y-d) - P(x,y) > t; and associating said kemels with a first layer.

a processor for separating said digital image into said a first and second layer, and for compressing said first layer with a first compression technique and for compressing said second layer with a second compression technique; and

a memory for storing said compressed first and second layers.

21. (cancelled).

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- 22. (original) The system of claim 21 wherein said means for identifying is a text binarization tool.
- 23. (original) The system of claim 20, wherein said processor comprises a compression means for compressing said first layer with a high resolution compression technique.
- 24. (original) The system of claim 20, wherein said processor comprises a compression means for compressing said second layer with a high lossy compression method.
- 25. (original) The system of claim 20, wherein said processor comprises restoration means for creating a restored digital image from said compressed first and second layer.
- 26. (original) The system of claim 20, wherein said compressed first layer comprises, a binary mask of the foreground layer, compressed grey level foreground layer data, and quantization grey levels.
- (original) The system of claim 26, wherein said compressed grey level foreground layer data is stored a two bit buffer.
- (original) The system of claim 26, wherein said compressed grey level 28. foreground layer data is stored a one bit buffer.
- (original) The system of claim 26, wherein said quantization grey levels comprises four levels.
- 30. (original) The system of claim 26, wherein said quantization grey levels comprises two levels.
- 31. (Currently amended) A computer software product, comprising a computerreadable medium in which program instructions are stored, which instructions when read by the computer, separates an image into a first and second layer, , wherein said first and second layer comprise image foreground and image background, respectively and compresses said first layer with a first compression technique and said second layer with a second compression technique.